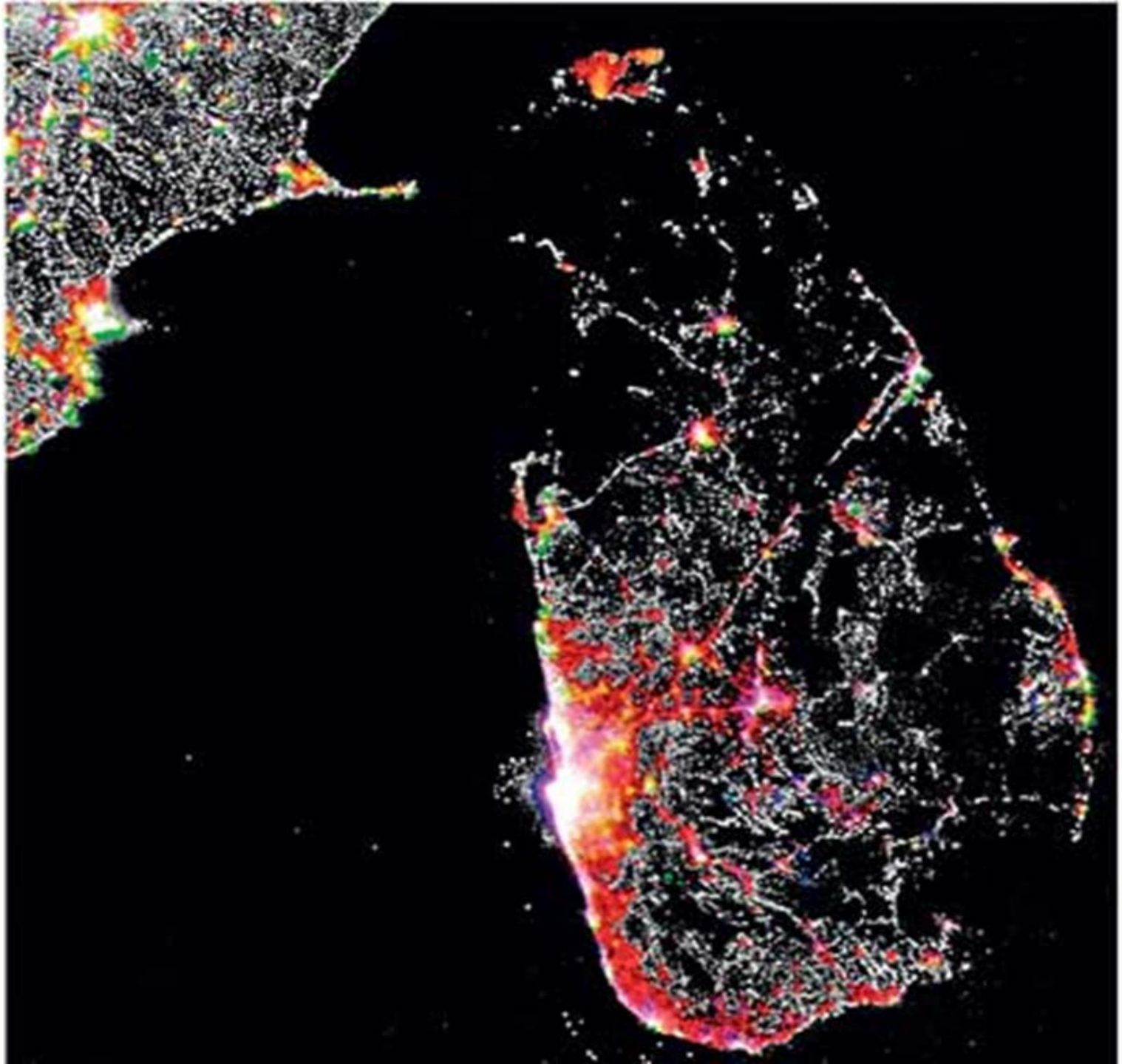
MILLENNIUM CHALLENGE CORPORATION

UNITED STATES OF AMERICA

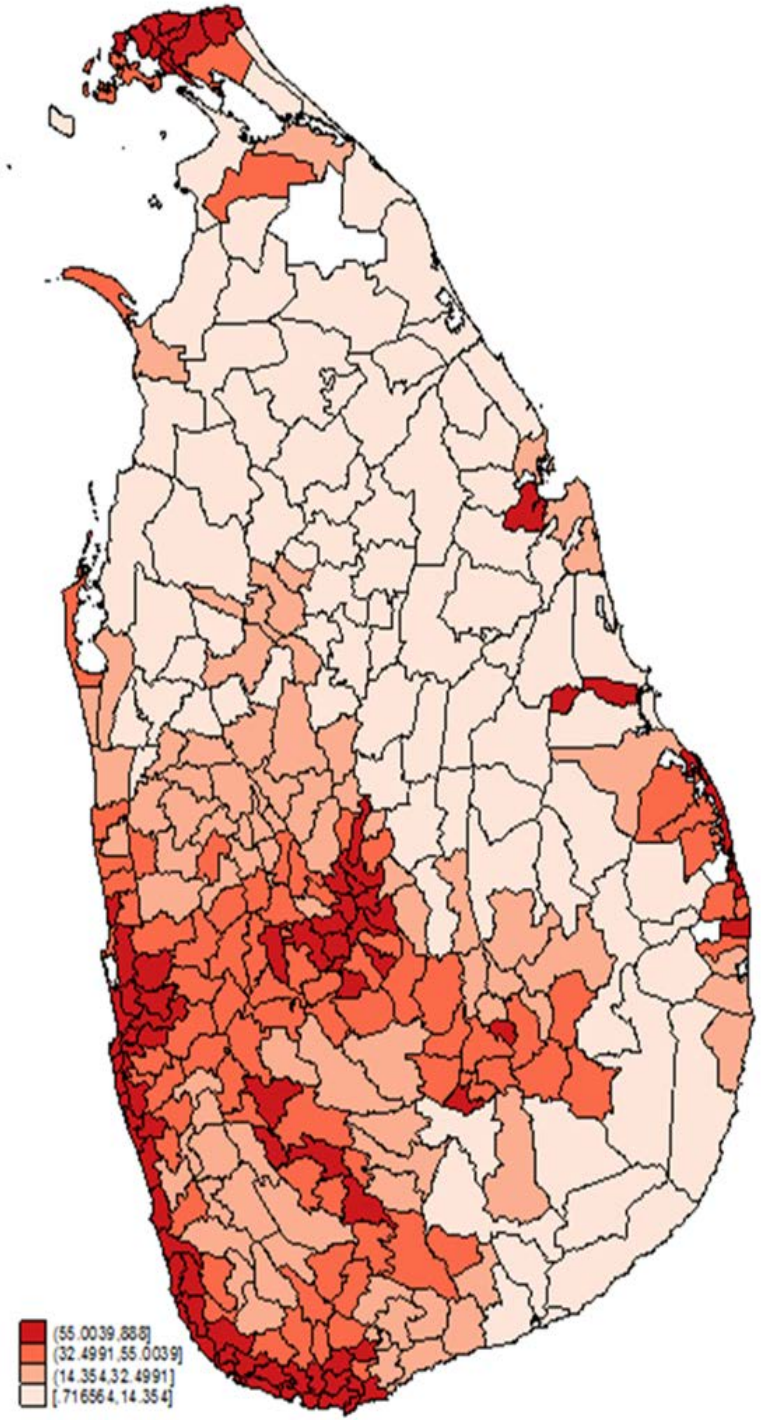
Transport Projects Under Consideration: Connecting People and Goods to Employment and Markets in Sri Lanka

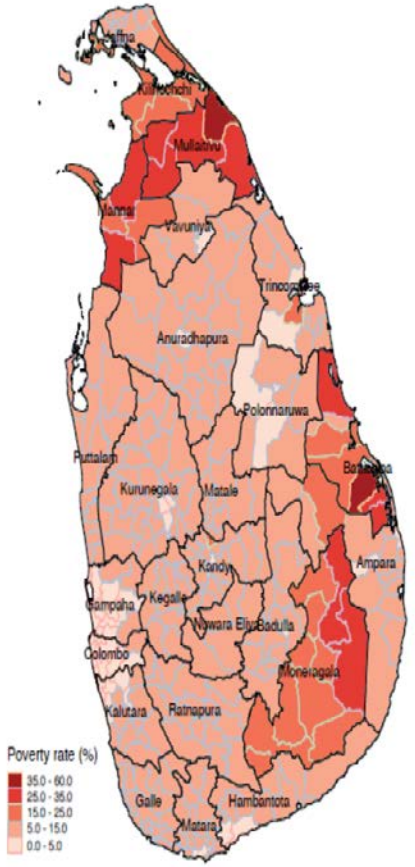
Sri Lanka Population Distribution

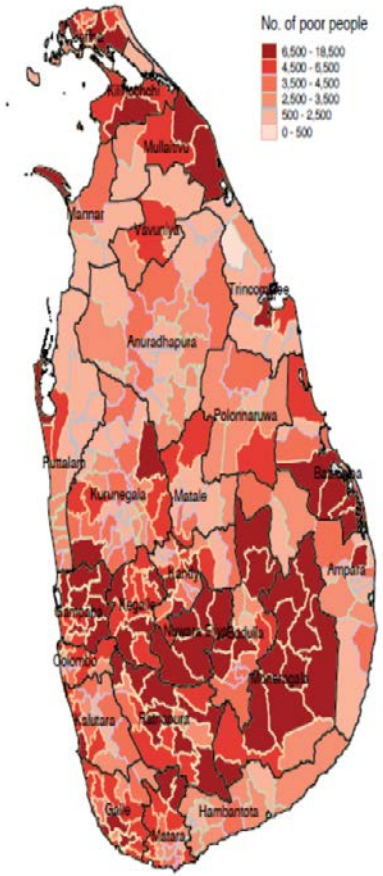


MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA

Distribution of Poverty in Sri Lanka







Source: Government of Sri Lanka and University of Moratuwa

MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA

The Root Cause Analysis Identified Several Key Constraints to Growth in the Transport Sector

The constraints analysis identified two core transport problems: (A) Traffic congestion in the Western Province and (B) Slow inter-regional movement of goods and people.

The root causes were:

A1. Rising population growth, urbanization, and attractiveness of private transport;

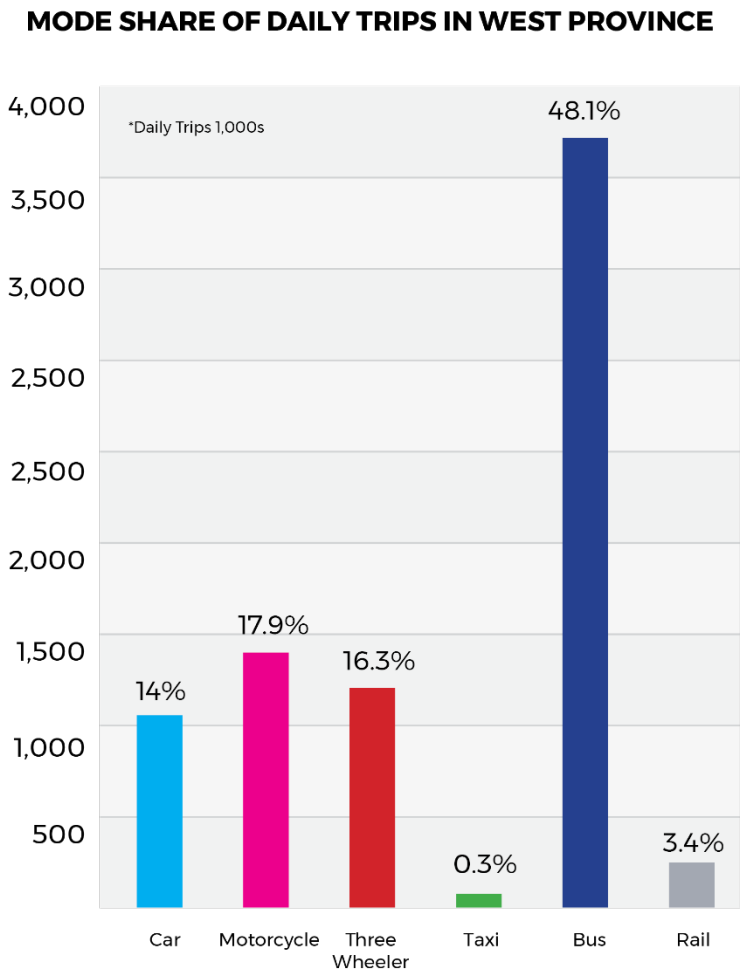
A2. Sub-optimal provision of public transport;

B1. Sections of provincial and rural roads require upgrading;

B2. Limited resources and capacity to maintain rural road networks.

Mobility Issues in the Colombo Metropolitan Region *(2013)*

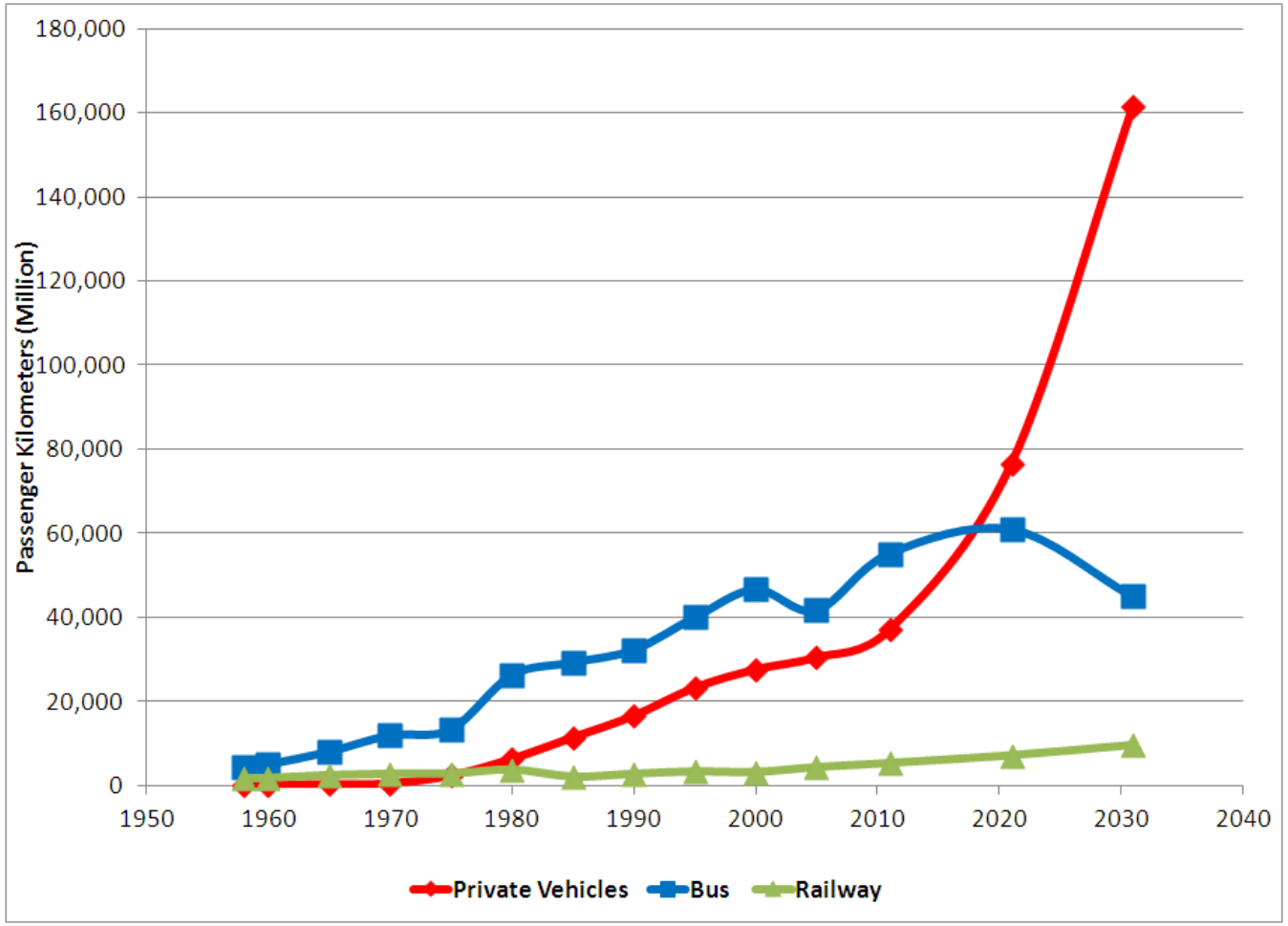
- **7.8 million/day motorized trips** *(2.2 million non-motorized)*
- **1.9 million daily passengers** enter the Colombo city limits each day



Source: Government of Sri Lanka and University of Moratuwa

MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA

Absent interventions, use of private vehicles will grow exponentially; study by University of Moratuwa suggests congestion results in an estimated $240 million loss in direct costs per annum



Source: Government of Sri Lanka and University of Moratuwa

Projected Change in Mobility (2020)	2014	2020	% Change
Average Colombo Metro Region Speed (D2D) km/hr	17 km/hr	8 km/hr	-55%
Opportunity Cost of Reduced Mobility *(2013 Rs)*	Rs 397 bn/yr	Rs 1,847 bn/yr	+365%

MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA

Proposed MCC Transportation Interventions

Colombo Metropolitan Region

1. Improvements to the eight busiest road corridors connecting Colombo with its suburbs
2. Bus Modernization – improve main source of public transport

Provinces

3. Central Ring Road Improvements

MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA

Road Corridors

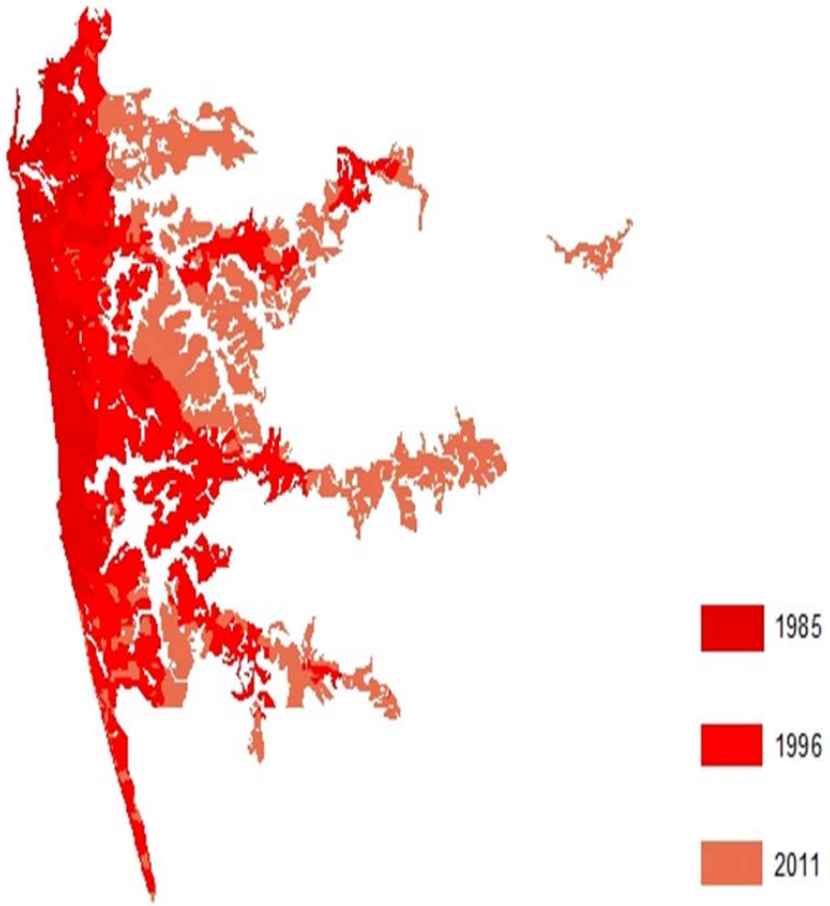
Length and average travel speeds during AM peak periods

1. Galle Road 16.4 km (8 km /hr)
2. High Level Road 19.1 km (9 km/hr)
3. Horana Road 11.4 km (10 km/hr)
4. Kandy Road 15.9 km (9 km/hr)
5. Low Level Road 12.2 km (11 km/hr)
6. Malabe Road 18.1 km (8 km/hr)
7. Negombo Road 12.3 km (14 km/hr)
8. Baseline Road Data pending

Source: Government of Sri Lanka and University of Moratuwa

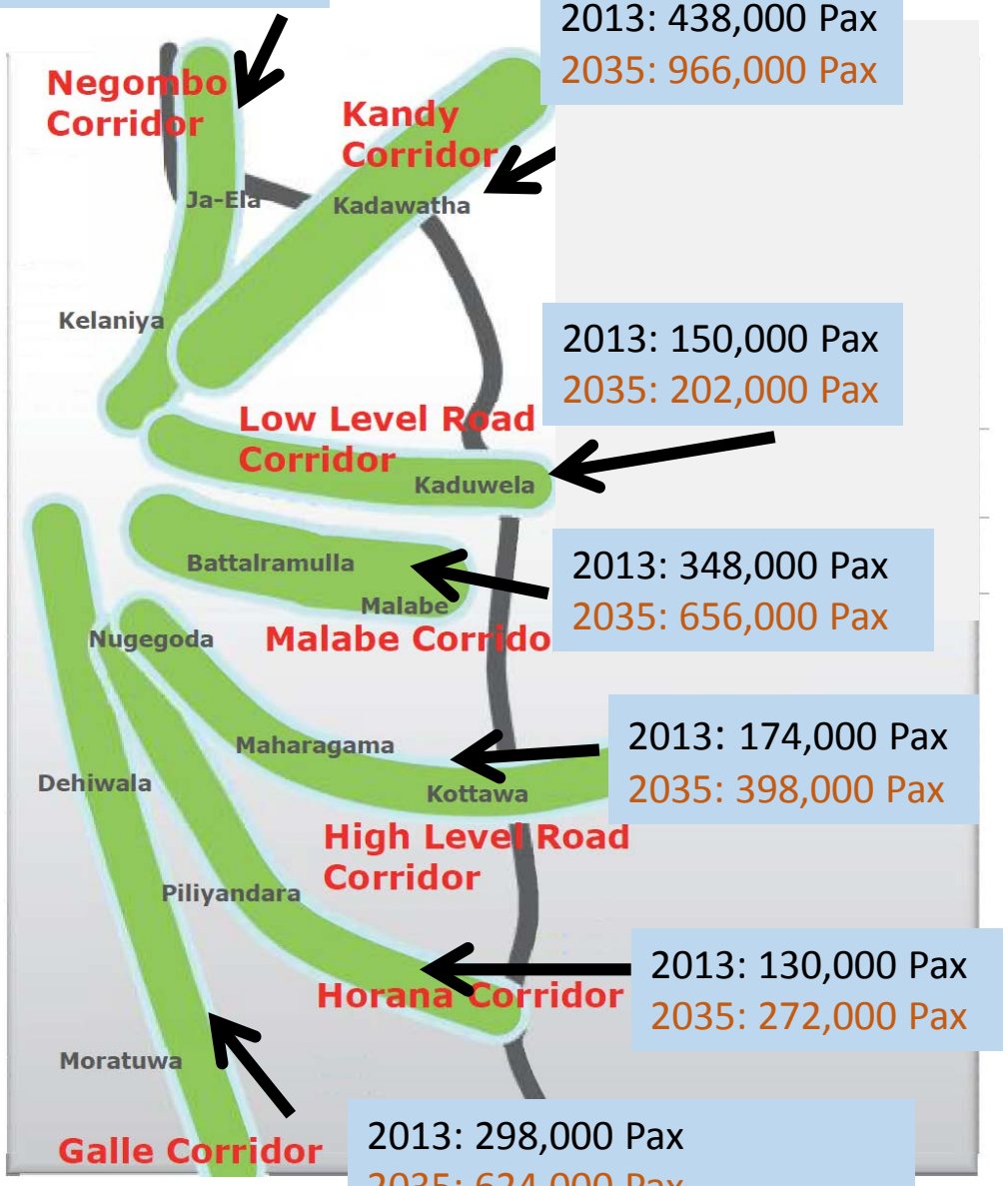
MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA

Unchecked Urban Sprawl



Source: Government of Sri Lanka and University of Moratuwa

1.9 Million → 4.5 Million



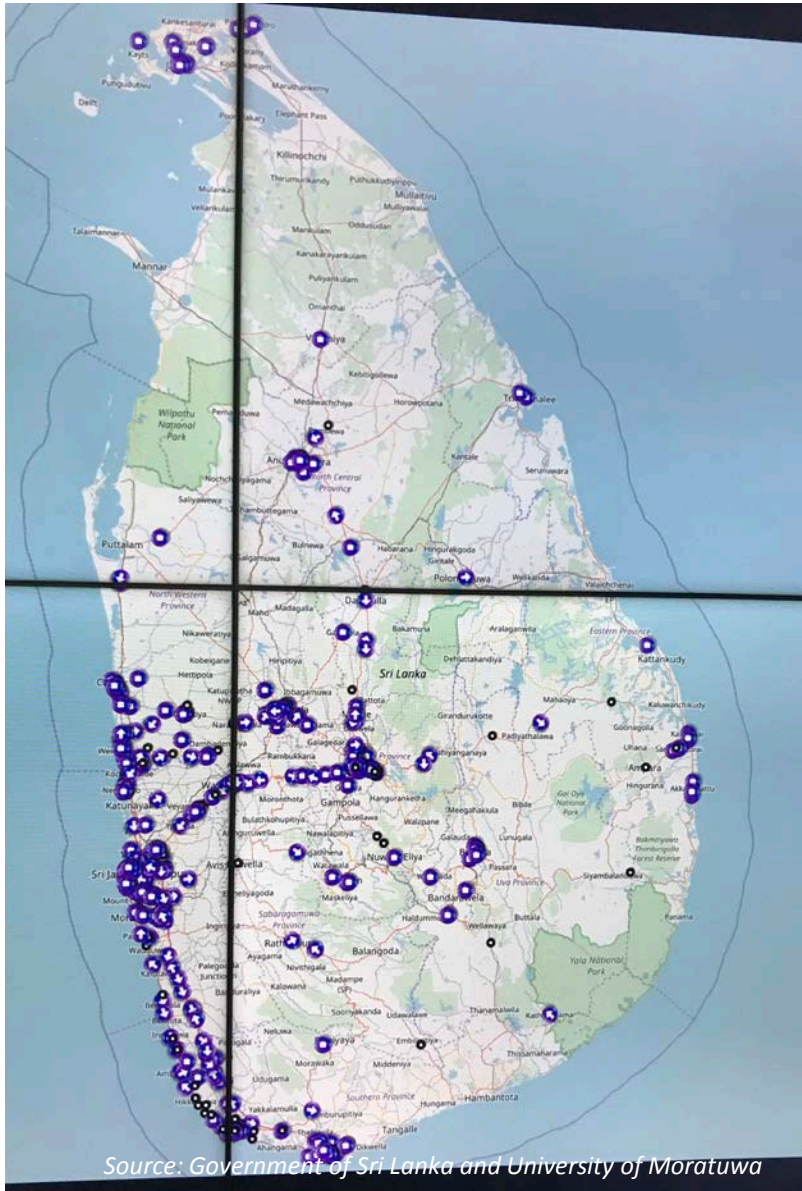
Source: Government of Sri Lanka and University of Moratuwa

Advanced Traffic Management System Components

- Network and systems architecture
- Junction and road geometry
- Incident management
- Traffic Management Center
- Signal coordination & management
- Bus priority measures

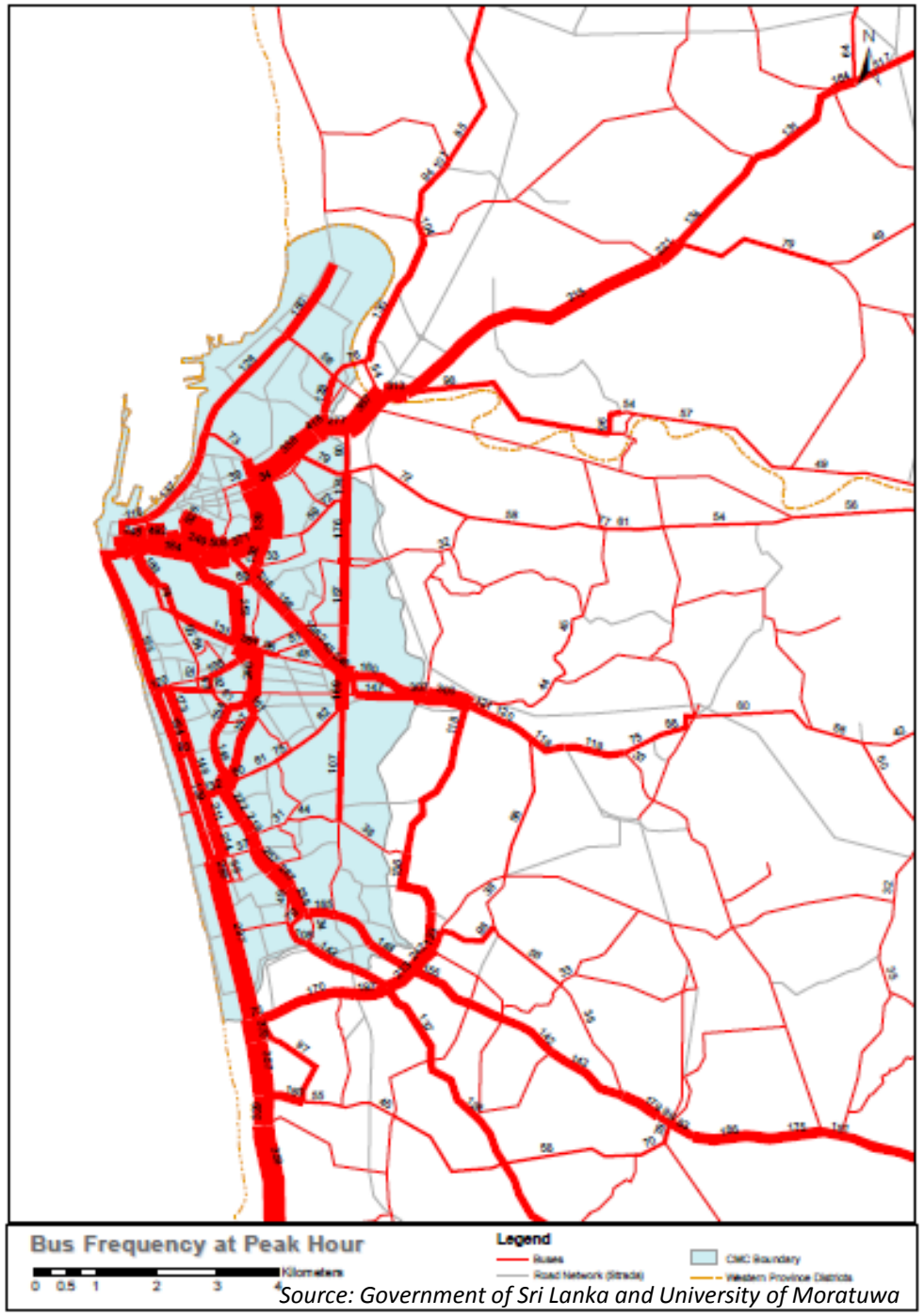
Bus Modernization Components

- Automated fare card collection
- GPS tracking
- Coordinated optimized scheduling
- Performance-based contracting
- Increased security for passengers
- Elimination of competition for farebox revenue
- Introduction of new low-flow buses on select routes



Source: Government of Sri Lanka and University of Moratuwa

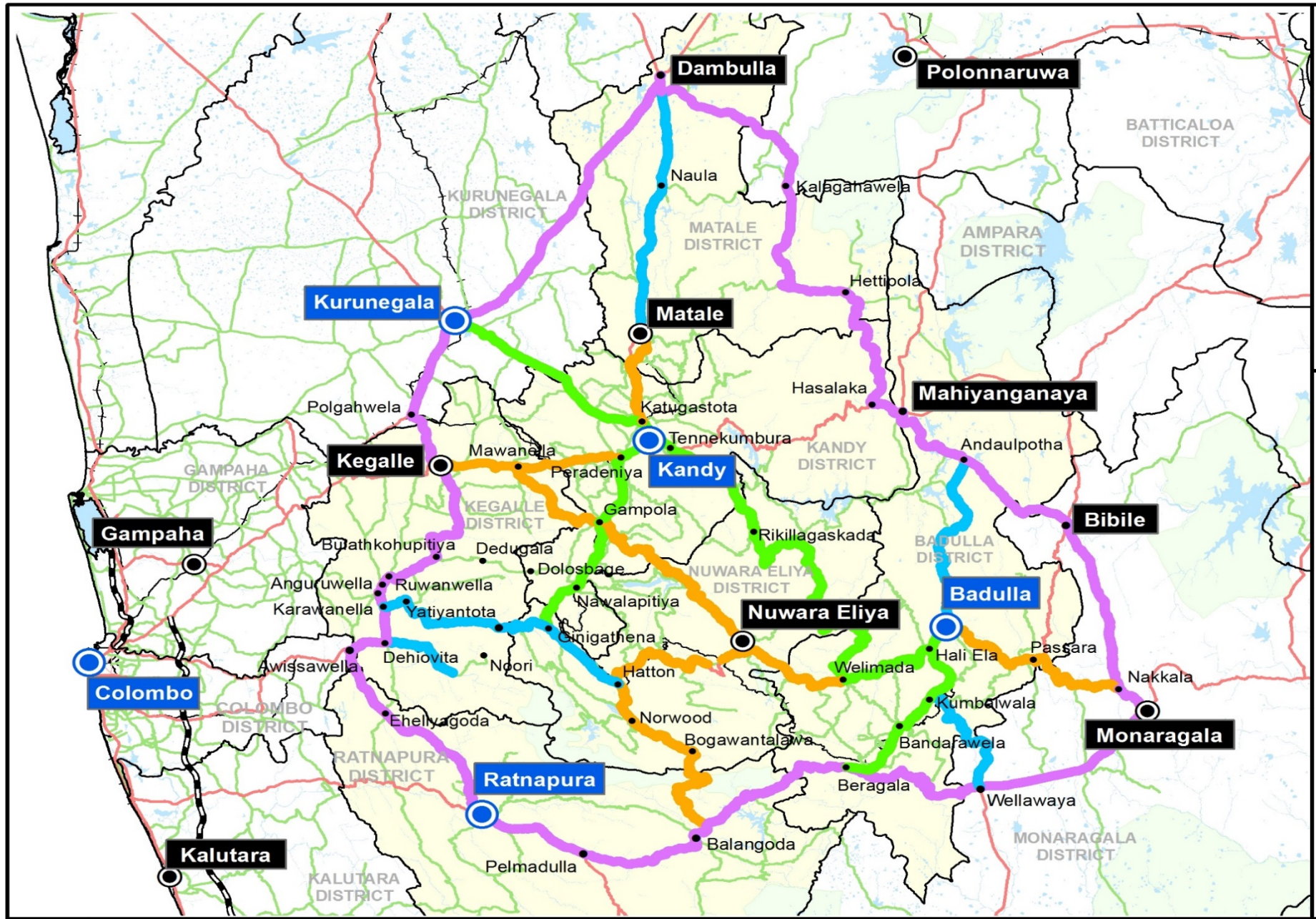
Road Corridors & Peak Period Bus Service



Source: Government of Sri Lanka and University of Moratuwa

Source: Government of Sri Lanka and University of Moratuwa

MILLENNIUM CHALLENGE CORPORATION
UNITED STATES OF AMERICA



Source: Government of Sri Lanka and University of Moratuwa